

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/NGR-25/LST-6

**Mine code :** 38RAJ20005

- (i) Name of the Inspecting : S012 ) Sharma H.C.  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. K. P. Singh, Manager (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 10-SEP-16
- (v) Prev.inspection date : 16-MAR-16

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : RAJASHREE-1( ML1/91)
- (b) **Registration NO.** : IBM/441/2011
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : RAJASTHAN
- District : NAGAUUR
- Village : DHANAPPA/BASNI
- Taluka : MERTA
- Post office : GOTAN
- Pin Code : 342605
- FAX No. : 0291-2431844
- E-mail : krishan.singh@adityabirla.c
- Phone : 0291-2431715
- (f) **Police Station** : GOTAN
- (g) **First opening date** : 08-JUL-87
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : ULTRA TECH CEMENT LTD. Birla White, Village & PO  
Dhanappa, Tehsil- Merta, Police Station- Gotan,  
District- Nagaur
3. (a) **Lease Number** : RAJ1490
- (b) **Lease area** : 400.74
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 27-NOV-47
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : ULTRA TECH CEMENT LTD.  
 B WING, AHURA CENTRE, 2nd  
 FLOOR, MAHAKALI CAVES ROAD,  
 ANDHERI EAST, MUMBAI MUMBAI  
 (SUBURBAN) MAHARASHTRA  
 Phone:+911412378980/81  
 FAX :+911412378980

Owner : K. K. Maheshwari  
 Ultratech Cement Ltd. Birla  
 White, D-7, Shastri Nagar,  
 Jodhpur JODHPUR RAJASTHAN  
 Phone:  
 FAX :

Agent : B K Bardia  
 Ultra Tech Cement Ltd.  
 Birla White, D -7, Shastri  
 Nagar, Jodhpur JODHPUR  
 RAJASTHAN  
 Phone: 02920264040  
 FAX :

## Mining Engineer

Name : Daleep Sodha, Full Time  
 Qualification : B E (Mining Engg)  
 Appointment/ : 01-JAN-96  
 Termination date

## Geologist

Name : Vivek R Bhardwaj, Full Time  
 Qualification : M Sc (Geology)  
 Appointment/ : 01-JAN-11  
 Termination date

## Manager

Name : K P Singh  
 Qualification : B E (Mining Engg)  
 Appointment/ : 01-JAN-00  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	03-AUG-93
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	29-JUL-94
		Mining Scheme rule 12 MCDR1988	18-AUG-99
		Mining Scheme rule 12 MCDR1988	18-FEB-00
		Existing rule 11 MCDR1988	16-MAR-01
		Mining Scheme rule 12 MCDR1988	08-NOV-04
		Mining Scheme rule 12 MCDR1988	26-AUG-10
		Renewal under rule 24 MCR1960	31-JAN-12

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2 Boreholes were proposed.	Being done	
1b	Exploration over lease area for geological axis 1 or 2	For G1 Axis	Being done	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Expenditure not specified	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified in the approved MP.	Not applicable	
1e	Balance reserve as on 01/04/20	2.0214 Million MT - 0.186230 MT = 1.83517 Million MT	1.81937 Million MT	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The work towards exploration is satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	In NE side of working pit/ lease area.	Being done as per proposals	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes to be provided seperartely.	Being done however the O/B bench has not been kept advanced sufficiently to avoid the interference of it with the mineral bench.	The deviation has been pointed out as VL.
2c	Stripping ratio or ore to OB ratio	1:1.09	1:0.53	The deviation observed indicates that propotional development of pit is not proper & same had been pointed out as VL.
2d	Quantity of topsoil generation in m3	6883 Cu M	500 Cu M	

2e	Quantity of overburden generation in m3	46725 Cu M	30000 Cu M
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The proportional development of Pit is not proper as is evident from Stripping Ratio. The O/B bench has not been kept advanced sufficiently to avoid the interference of it with the mineral bench. Both of the above deviations had been pointed out as VL.

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Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit	Being done	
3b	Quantity of ROM mineral production proposed	49070 T	57003 T	
3c	Recovery of sailable/usable mineral from ROM production	98%	About 97 %	
3d	Quantity of mineral reject generation	Not specified	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	981 T	Not reported	
3g	Grade of sub grade mineral generation	High Iron	High Iron	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Being done	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not specified	Not applicable
3j	Provision of drilling and blasting in mineral benches	2.5 ft and 5 ft Jack hammer drilling & blasting.	Being done
3k	Provision of mining machineries in mineral benches	JCB used for removal of O/B.	Being done
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	2 benches of 2-3m height in mineral and in O/B 2 benches of 6-7 m height.	The height of benches in mineral & in O/B are suitable for the proposed method of mining.
3m	Total area covered under excavation/pits	0.66 ha	0.43 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:1.09	1:0.53
3o	Total area put in use under different heads at the end of year	Pitting- 12.8131 ha, Dumping- 5.26 ha, Subgrade stacking- 0.44 ha, Infrastructure - 0.50 ha, Roads- 1.78 ha.	Not Reported
3p	Production of ROM mineral during the last five year period as applicable	2012-13- 44870 T, 2013-14 - 45120 T, 2014-15 - 47070 T, 2015-16- 49070 T.	2012-13- 30264 T, 2013-14 - 26910 T, 2014-15 - Nil, 2015-16- 57003 T.
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The method of Mining is suitable to the type of deposit.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes proposed seperate removal of Top Soil & O/B, no reject generation, only Subgrade mineral generation.	Being done
4b	Location of topsoil, OB and mineral reject dumps	Top soil proposed to be used partly for plantation & partly over backfilled area. O/B Dumping seperately. No reject dumping.	Being done
4c	Number of dumps within lease area and outside of lease area	Single O/B Dump	Single O/B Dump
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Being done
4e	Number of active and alive dumps.	01	01
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	01	01
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	No proposal	350m
4j	Number of settling ponds	No Proposals	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The general house keeping of Dumps is satisfactory.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full exhaustion of part of pit.	Being done & it is progressing from one end.
5b	Area under backfilling of mined out area	1.376 ha	0.39 ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed to be used for plantation.	Being done
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	The backfilling over exhausted part of pit is progressing from one end, but work is lagging.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes proposed to be submitted.	Not submitted.	The deviation has been pointed out as VL.
6b	Area available for rehabilitation (ha) .	Not specified	Not applicable	
6c	afforestation done (ha).	2.82 ha	1 ha	
6d	No. of saplings planted during the year	1200 Nos	600 Nos	
6e	Cumulative no .of plants	Not specified	8600 Nos in ML area & outside ML.	
6f	Any other method of rehabilitation	Not specified	Not applicable	
6g	Cost incurred on watch and care during the year	Not specified	Not Reported	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	400 X 300 X 10	AS per proposals
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	4.25 ha	AS per proposals
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	2.0 ha	AS per proposals
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not specified	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not specified	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not specified	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not specified	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not specified	Not applicable



6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, Water & Noise is monitored Quarterly, Half yearly & annually as per consent conditions of SPCB.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The violation of rule 23 E (2) had been pointed out for non submission of annual report of PMCP.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The ROM proposed to be dispatched to the plant after sorting manually.	Being done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Being done	
7c	Different grade of mineral sorted out at mines.	Not specified	Sorted as WC grade & Subgrade.	
7d	Any beneficiation process at mines .	Not specified	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	The work towards mineral conservation is satisfactory.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Yes seperate removal of top soil proposed	Being done	
8b	Concurrent use or storage of topsoil	Concurrent use for plantation.	Being done &	Storage NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps for O/B.	Being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not specified	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not specified	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	Not applicable	
8g	Survival rate	Not specified	Not applicable	
8h	Water sprinkling on roads to control airborne dust			
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The aesthatic beauty in & around the mine is satisfactory.	

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Not applicable	M/R submitted up to AUG 2016 & A/R submitted upto 2015-16.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Found OK
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes Given	Found OK
9d	Scrutiny of Annual return on afforestation	Yes given	Found OK
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No information given	Found O K
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes given	Found O K
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes Given	Found O K
9h	Scrutiny of Annual return on fixed assets	Yes Given	Found O K
9k	Scrutiny of Annual return on mining machineries	Yes given	Found O K

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 13(1)	04-OCT-16				
Rule 15(2)	04-OCT-16				
Rule 23E(2)	04-OCT-16				

**Date :**

(Sharma H.C.)

Indian Bureau of Mines